

BACKFLOW PREVENTION ASSEMBLY

Most Frequently Asked Questions:

Q. What is a Backflow Prevention Assembly?

- A. Backflow Prevention Assembly is a plumbing device that is most commonly installed between the water meter and the service main to the property.

Q. Why are they installed?

- A. They are installed to protect the public & private drinking water supplies from cross-connections. These are plumbing requirements at the Federal, State and Local jurisdictions.

Q. What does a backflow preventer do?

- A. A properly functioning backflow preventer only allows water to flow in one direction. **For example: The direction of flow would be through the water meter to the property. Never allowing the water to reverse back through the water meter, into public drinking water supply.**

Q. Where is the backflow preventer located?

- A. The preventer is normally located as close as practical to the service connection from your water supply. Commonly found behind the water meter.

Q. Why does a backflow preventer have to be tested?

- A. The backflow preventer is a mechanical device with internal components such as check valves, seals, springs and rubber materials. These parts are subject to wear, fatigue and fouling. This is why backflow preventers are tested annually to ensure that they are functioning properly.

Q. What happens if the backflow preventer fails the initial test?

- A. Repairs are necessary to pass the backflow preventer. In most cases, simply a cleaning and service corrects the problem. Repair parts are available if needed. Retest is performed to ensure the repairs have corrected the problem, and pass the backflow preventer.

Q. What is a cross-connection?

- A. A cross-connection is a direct or indirect arrangement of piping that allows the potable water supply to be connected to a contaminated source.
For example: water service supplying water to a building that also serves the irrigation system. Most common cross-connection is a garden hose submerged, or attached to contaminated fluids and undesirable substances.

**CITY OF SANTA BARBARA PUBLIC WORKS
RESIDENTIAL FIRE SPRINKLER SYSTEMS POLICY**

The following represents water meter and fire line options available for residential fire sprinkler systems.

METERED OPTIONS

<u>FLOW REQUIRED</u>	<u>SERVICE SIZE</u>	<u>METER SIZE</u>	<u>COST</u>	<u>BUY-IN REQ.</u>
Up to 20 GPM	1"	5/8"	Per Resolution	Yes
>20 up to 50 GPM	1"	1"	Per Resolution	Yes
>50 up to 160 GPM	2"	2"	Per Resolution	Yes

All residential services used for fire sprinkler supply shall have, as a minimum, an approved double check valve back-flow device. The back-flow device shall be placed at the meter or a location approved by the City's Cross-Connection Specialist. There is no exception to the back-flow requirement.

There may be situations where the flow requirement, available flow capacity, or unfavorable hydraulic conditions may require a service that is dedicated to providing the flow to the fire sprinkler system. In such cases, a domestic meter of appropriate size is purchased along with the dedicated fire line listed below.

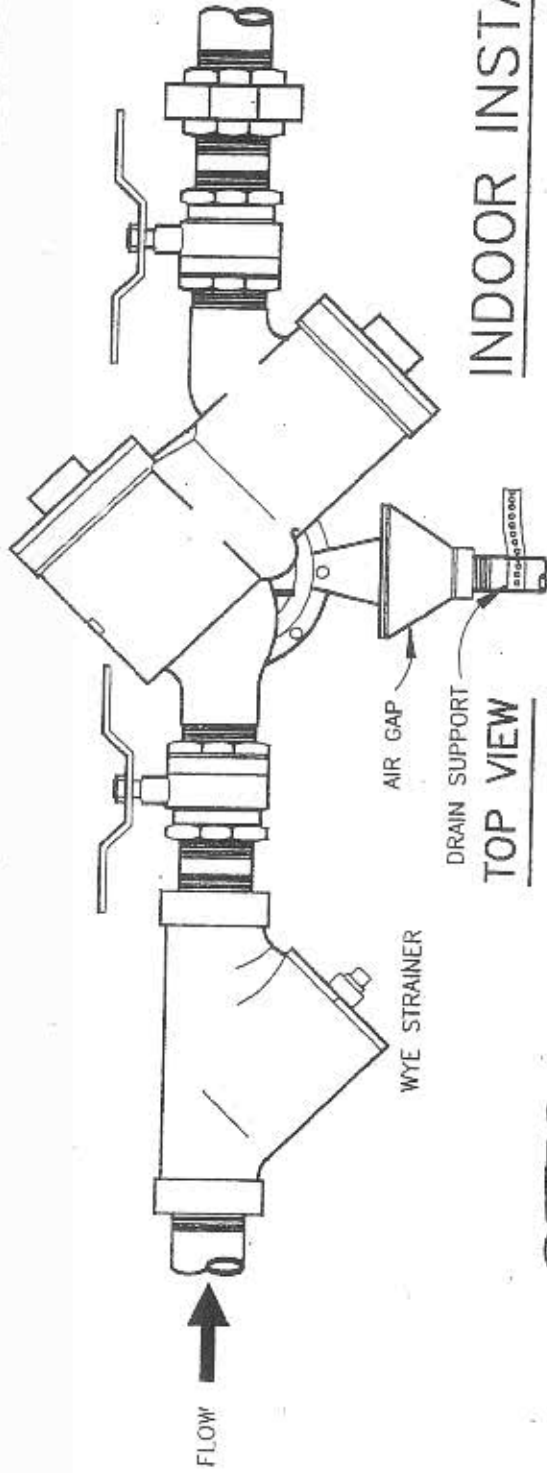
DEDICATED FIRE LINE OPTION

<u>FLOW REQUIRED</u>	<u>SERVICE SIZE</u>	<u>METER SIZE</u>	<u>COST</u>	<u>BUY-IN REQ.</u>
Up to 160 GPM	2"	N/A	Per Resolution	No

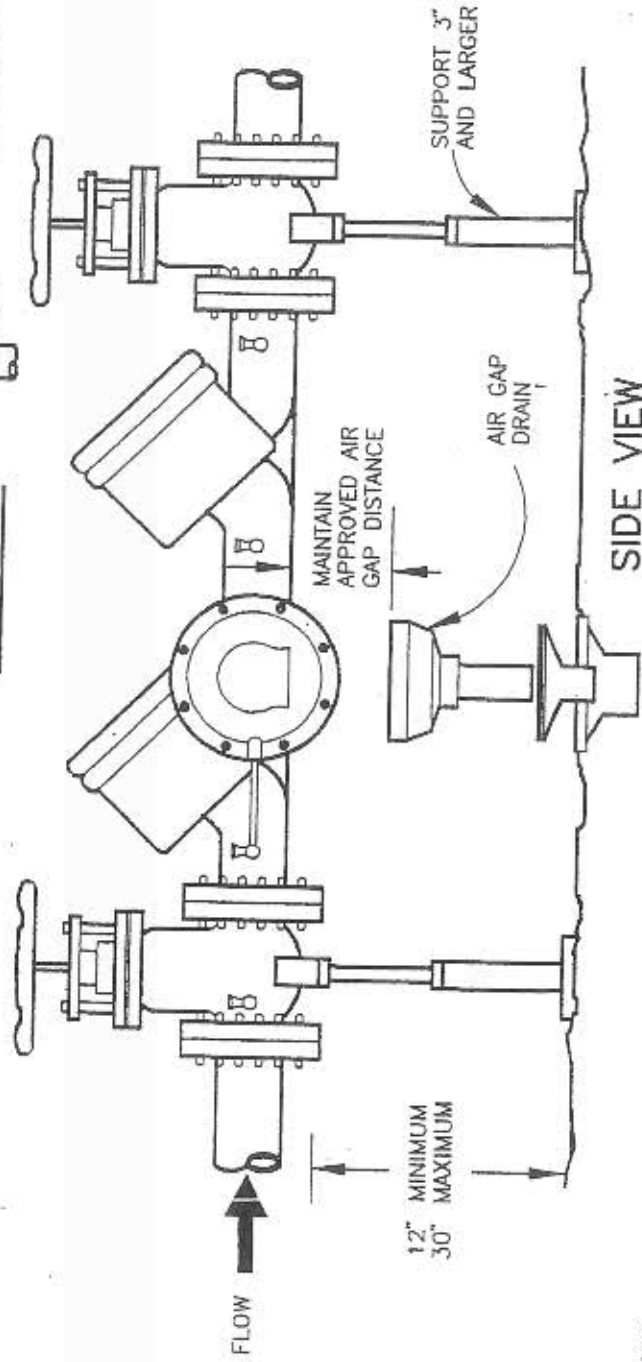
All dedicated fire lines shall have, as a minimum, a City of Santa Barbara approved double check detector back-flow assembly with a manufacturer installed flow detection meter. The back-flow assembly shall be placed at the curb above or below ground, per the City of Santa Barbara standards, or a location approved by the City's Cross-Connection Specialist. There is no exception to the back-flow requirement.

CONTACTS:

Jose "Pepe" Marquez	Water Distribution Supervisor	564-5409
Joe Delgado	Water Distribution Lead Operator	564-5413
Peggy Avila	Cross Connection Specialist	564-5475
Maggi Walker	Cross Connection Assistant	564-5406



INDOOR INSTALLATION



6-0140.DWG

REVISED	DATE

APPROVED

[Signature]

PUBLIC WORKS DIRECTOR

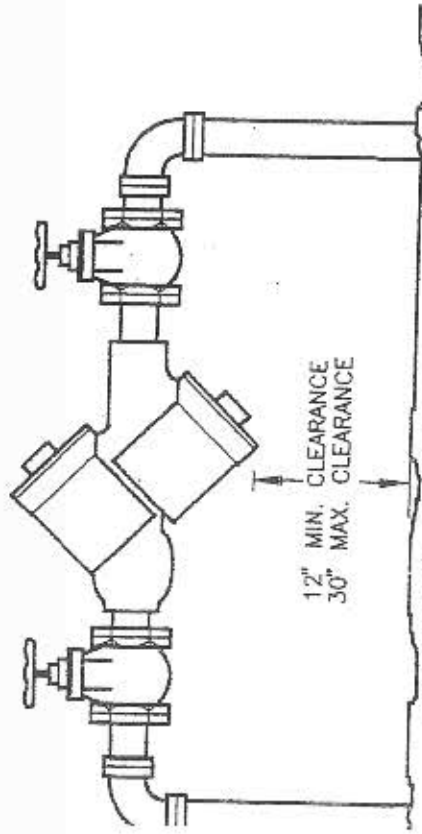
12/2/91
DATE

CITY OF SANTA BARBARA - PUBLIC WORKS DEPARTMENT

REDUCED PRESSURE PRINCIPAL ASSEMBLY
BACKFLOW PREVENTION ASSEMBLY -- TYPE 1

STANDARD DETAIL

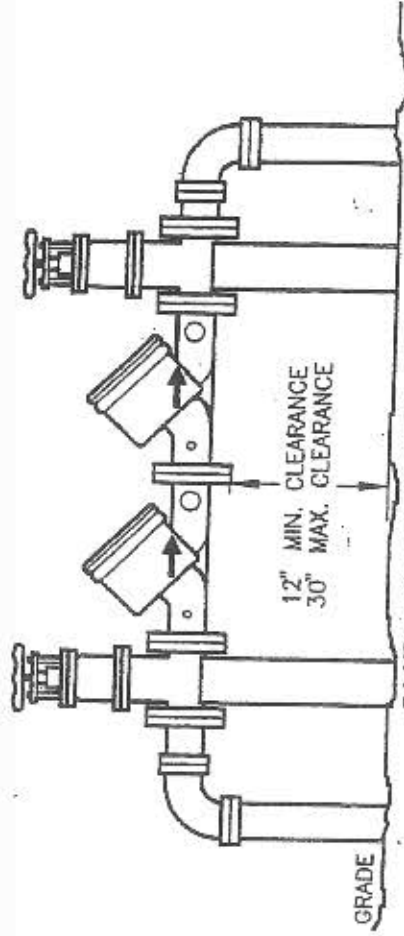
6-014.0



OUTSIDE INSTALLATION
(SIDE VIEW)

(SIZES 3/4" THROUGH 2")

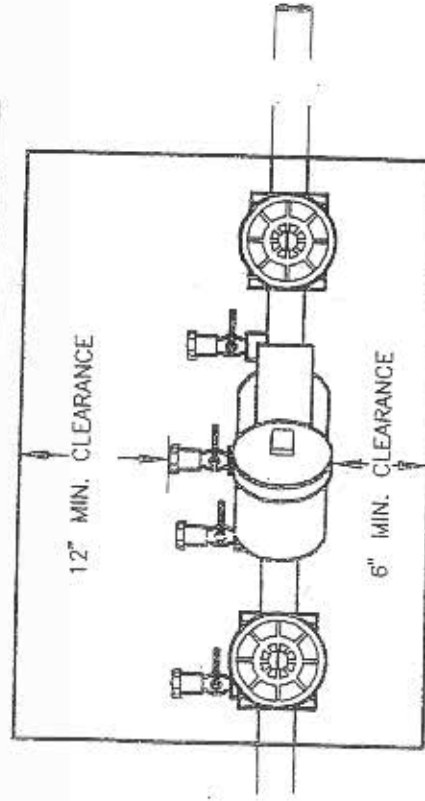
DOUBLE CHECK VALVE ASSEMBLY



OUTSIDE INSTALLATION
(SIDE VIEW)

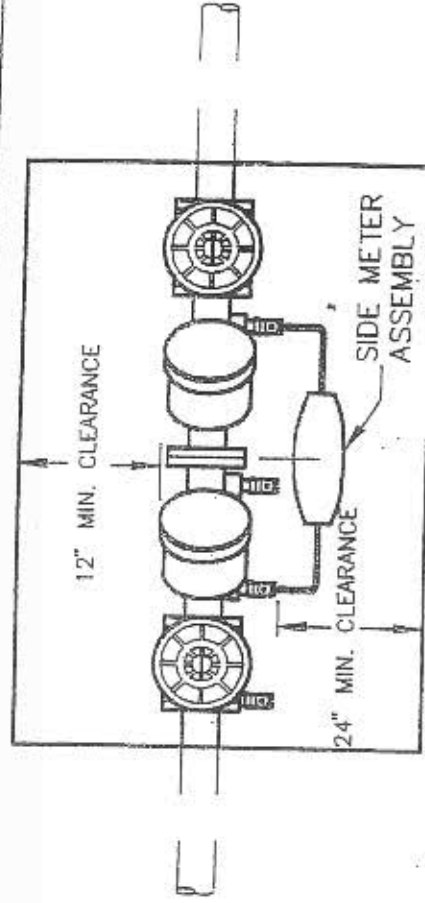
(SIZES 2 1/2" AND LARGER)

DOUBLE CHECK DETECTOR CHECK ASSEMBLY



PIT INSTALLATION
(TOP VIEW)

(SIZES 3/4" THROUGH 2")



PIT INSTALLATION
(TOP VIEW)

(SIZES 2 1/2" AND LARGER)

DATE

APPROVED

PUBLIC WORKS DIRECTOR

DATE

CITY OF SANTA BARBARA - PUBLIC WORKS DEPARTMENT

DOUBLE DETECTOR CHECK ASSEMBLY
BACKFLOW PREVENTION ASSEMBLY - TYPE 2

STANDARD DETAIL

6-015.0

Taken from the Regulations Relating To Cross Connection Control;
California Administrative Code Title 17 – Public Health
State Of California, Department Of Public Health

7605. Frequency of Inspection of Protective Devices.

It shall be the duty of the water user on any premise on account of which backflow protective devices are installed to have competent inspections made at **least once a year**, or more often in those instances where successive inspections indicate repeated failure. These devices shall be repaired, overhauled or replaced at the expense of the water user whenever they are found to be defective. It shall be the duty of the water purveyor and the Health Department to see that these tests are made in accordance with the responsibility designated in Section 7583. Records of such tests, repairs, and overhaul shall be kept and made available to the water purveyor and the local Health Department.

Section 7605 – (D) Backflow preventers shall be tested immediately after they are installed, relocated or repaired and not placed in service unless they are functioning as required.

PRIVATE FIRE SERVICE

Sections:

14.12.010 Private Fire Service - Non-Meter Rates.

14.12.030 Private Fire Service - Reservation of Right to Disconnect.

14.12.020 Private Fire Service - When Line to be Metered, Etc.

14.12.010 Private Fire Service - Non-Meter Rates.

The rate for City water for private fire services when the use of a meter is not required shall be set by resolution of the City Council. (Ord. 3829, 1976.)

14.12.020 Private Fire Service - When Line to be Metered, Etc.

If an existing fire service line is found tapped for domestic use, a meter or detector-check device shall be installed on such service at the expense of the consumer and the regular meter rate shall be charged thereafter in addition to the fire service rate. All fire service lines installed after the effective date of the ordinance codified in this chapter shall have an approved detector-check and by-pass meter installed and such device shall be considered part of the fire service cost. (Ord. 2931 §2(part), 1963; prior Code §44.21.)

14.12.030 Private Fire Service - Reservation of Right to Disconnect.

The right shall be reserved to disconnect fire service lines from the City main by direction of the Council on recommendation of the Director of the Public Works Department. (Ord. 2931 §2(part), 1963; prior Code §44.22.)

Chapter 14.12

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**COMPANIES PROVIDING BACKFLOW PREVENTION TESTING SERVICES
CERTIFIED BY CALIFORNIA APPROVED AGENCIES**

NAME & COMPANY	ADDRESS	PHONE
Tony Gring - AG Enterprises	3950 Via Real #72, Carpinteria, 93013	805-684-0395
Sergio Reyes - Reyes Backflow	3950 Via Real #276, Carpinteria, 93013	805-450-5239
Todd Hodgins - County Sanitation Co.	P.O. Box 576, Summerland, 93067	805-682-3568
Shaun Klennert - Crowder Backflow	P.O. Box 772, Ventura, 93002	805-639-0123
Ray Zierman - Ray Zierman Backflow	P.O. Box 2216, Orcutt, 93457	805-934-1074
Bob Larson - Associated Backflow	2070 E. Deer Canyon Rd., Arroyo Grande, 93420	805-481-2469
John Geyer - Central Service & Supply	6555 Pardall, Goleta, 93117	805-968-3116
David Gonzales - Independent	dpggonzo@roadrunner.com	805-201-8704
Wayne Sherman - Aqua Clean	P.O. Box 399, Buellton, 93427	805-693-8070
Steve Harper - Steve's Backflow	1930 Old San Marcos Rd., Santa Ynez, 93460	805-688-8901
Art DeRueda - Independent	492 Apple Grove Ln., Santa Barbara, 93105	805-563-2224
Frank Hawthorne - Anacapa Testing	P.O. Box 30156, Santa Barbara, 93105	805-682-4941
Bill Norton - South Coast Landscape	4096 Cerrito Ln., Santa Barbara, 93110	805-687-0492
Roger Enns - Enco Water	P.O. Box 3921, Santa Barbara, 93105	805-687-0936
Steve Morellis - Specialty Plumbing	817 E. Gutierrez St., Santa Barbara, 93103	805-899-8680
Douglas Wilson - Wilson Backflow	92 Walnut Ln., Santa Barbara, 93111	805-964-3050
Mike Alvarado - Alva-Water Mgmt.	641 S. San Marcos Rd., Santa Barbara, 93111	805-680-0462
David Ramirez - Independent	1714 San Pascual St., Santa Barbara, 93101	805-451-2899
Dave Sherin - Barber Backflow	133 Vista de la Cumbre, Santa Barbara, 93105	805-452-1785
Nick Thornton - Conejo Fire Protection	350 E. Easy St., Suite 3, Simi Valley, 93065	805-583-1777
Barry Burris - B3 Backflo, Inc.	P.O. Box 1177, Victorville, 92393	888-356-9222
John Cockrum - Jerry's Plumbing	319 N. Russell Ave., Santa Maria, 93458	805-928-5526
Chris Otanez - Independent	3035 Paseo Tranquillo, Santa Barbara, 93105	805-452-1527
Shane Atkin - Atkin Backflow	P.O. Box 2426, Lompoc, 93438	805-733-4544
Tim Lawson - Integrated Fire & Safety	1229 N. Ventura Ave., Ventura, 93001	805-648-5906
Lori Frost - Applied Backflow Tech.	850 Albany Ave., Ventura, 93004	800-433-3569
Roger Tousignant - Independent	580 Vine St., Oak View, 93022	805-766-5992
Daniel Mahan - Bark's Plumbing	1700 N. Broadway, Santa Maria, 93454	805-686-1196
Mario Reynoso - Independent	1321 E. Montecito Pl. #A, Santa Barbara, 93103	805-896-1553
John Hodgins - County Sanitation Co.	P.O. Box 576, Summerland, 93067	805-682-3568
Robert Eranio - Robert's Consulting	2188 Johnson Dr., Ventura, 93003	805-482-2001
Travis Larson - Associated Backflow	P.O. Box 6971, Los Osos, 93412	805-481-2469
Joy McAndress - Certified Backflow Testing	945 Ward Drive, Goleta, CA 93111	805-448-4512
Brian Kittle - Brian Kittle Plumbing	7730 Evergreen Dr., Goleta, 93117	805-968-4238
Mike Lopez - Anderson Systems	5958 Corta St., Goleta, 93117	805-683-6133
Greg Remsen - Backflow Certification	29118 Vacation Drive, Canyon Lake, CA 92587	800-427-6444
Richard Briner - Anderson Systems	5958 Corta St., Goleta, 93117	805-683-6133
Carroll's Plumbing & Maintenance Inc	2825 DeLaVina Santa Barbara Ca,	805 687-2677
Sewart's De-Rooting	208 Palm Ave., Santa Barbara Ca.	805-965-8813

TEST AND MAINTENANCE REPORT

Manufacturer

Model

Size

Serial No.

Service No.

Water Dist.

LOCATION

RETURN TO:

CITY OF SANTA BARBARA WATER RESOURCES
POST OFFICE BOX 1990
630 GARDEN STREET
SANTA BARBARA, CA. 93101
(805) 564-5413
ATTN: CROSS-CONNECTION OFFICE

Completed test form
due in our office by:

	Check No. 1	Check No. 2	Diff. Pres. Relief Valve	Air Inlet
T E S T	Leaked () Closed Tight ()	Leaked () Closed Tight ()	Opened at _____ lbs. Differential (2 PSI Min) Did not Open ()	Opened _____ lbs. () Did not Open ()
R E P A I R S	Cleaned () Replaced: Disc () Spring () Diaphragm () Guide () Pin Ret. () Hinge Pin () Seat () Other () Shut-off Valve ()	Cleaned () Replaced: Disc () Spring () Diaphragm () Guide () Pin Ret. () Hinge Pin () Seat () Other () Shut-off Valve ()	Cleaned () Replaced: Disc: Upper () Lower () Spring () Diaphragm () Large-upper () lower () Small () Seat: upper () lower () Spacer ()	Cleaned () Replaced: Disc () Spring () Diaphragm () Float () Seat () Other () Shut-off Valve ()
R E T E S T	Leaked () Closed Tight ()	Leaked () Closed Tight ()	Opened at _____ lbs. Differential (2 PSI Min)	Opened _____ lbs. () Did not Open ()

REMARKS: _____

All test and/or repairs and maintenance are certified to have been completed on the actual date work is performed unless otherwise indicated in the remark column.

Tested by: _____ Certif. No.: _____ Test Date: _____

Repaired by: _____ Repair Date: _____

Final Test by: _____ Certif. No.: _____ Final Test Date: _____

Owner/Occupant: _____ Date: _____

Tester: Please sign your name (do not print): _____

FOR OFFICE USE ONLY

Repair and Reinspection Required Immediately ()

Remarks:

Reinspection Required:

One Month () Six Months ()
Three Months () One Year ()



CITY OF SANTA BARBARA • PUBLIC WORKS DEPARTMENT
WATER RESOURCES DIVISION
630 GARDEN ST. • SANTA BARBARA, CA. 93101 • (805) 564-5413

TO: PREMISES OWNER OR OCCUPANT
FROM: CROSS-CONNECTION INSPECTION OFFICE
SUBJECT: NOTICE TO TEST BACKFLOW PREVENTION DEVICE

The backflow prevention device described on the reverse side of this notice has been installed on premises owned or occupied by you for the protection of the potable water supply.

Under the requirements of the California Code of Regulations and the Santa Barbara County Code, you are directed to have this device tested to determine that it is functioning satisfactorily. This inspection is required to be performed when first putting the device into service and at least annually for the life of the device. If found defective the device shall be repaired or replaced without delay. Repair or replacement must be followed by a test to ensure effective operation.

Testing must be performed by a person possessing a valid certificate of competence issued by the County of Santa Barbara Health Care Services. A list of companies supplying certified tester service is enclosed for your convenience. The completed report is to be returned to the office indicated on the reverse side of this form by the return date specified. The responsibility of returning the form rests solely with the owner or occupant.

Please feel free to contact the designated office if you desire additional information.

Your cooperation is appreciated.